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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/552,493	09/21/2006	Daniele Andreotti	PB60162A 2324		
	90 01/08/2007 BEECHAM CORPORA	EXAMINER			
CORPORATE IN	NTELLECTUAL PRO	RAHMANI, NILOOFAR			
P. O. BOX 1539 KING OF PRUS	SIA, PA 19406-0939	ART UNIT	PAPER NUMBER		
	·		1625		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	THS	01/08/2007	PAPER		

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Ap	plication No.		Applicant(s)				
		10	0/552,493		ANDREOTTI ET AL.				
		Ex	aminer		Art Unit				
		Nil	oofar Rahmani		1625				
The Period for Rep	MAILING DATE of this commun ly	ication appears	on the cover she	eet with the co	orrespondence ad	ldress			
WHICHEVE - Extensions of after SIX (6) If - If NO period f - Failure to rep Any reply rec	NED STATUTORY PERIOD F ER IS LONGER, FROM THE M time may be available under the provisions MONTHS from the mailing date of this comm or reply is specified above, the maximum start by within the set or extended period for reply seived by the Office later than three months at term adjustment. See 37 CFR 1.704(b).	IAILING DATE of 37 CFR 1.136(a). nunication. atutory period will app will, by statute, caus	OF THIS COMM In no event, however, n ply and will expire SIX (6 e the application to become	IUNICATION may a reply be time  B) MONTHS from to me ABANDONED	ely filed he mailing date of this c 0 (35 U.S.C. § 133).				
Status									
1)⊠ Resp	onsive to communication(s) file	ed on 21 Septe	mber 2006.						
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
, 023									
· ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of	Claims								
4)⊠ Claim	I)⊠ Claim(s) <u>37-40</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
•	Claim(s) 37 is/are allowed.								
·	5)⊠ Claim(s) <u>38-40</u> is/are rejected.								
7)∐ Claim	n(s) is/are objected to.				,				
8) Claim	n(s) are subject to restric	ction and/or ele	ction requiremen	nt.					
Application Pa	pers								
9)□ The si	pecification is objected to by th	e Examiner.	,						
<i>,</i> —	rawing(s) filed on is/are:		d or b)⊡ objecte	ed to by the E	xaminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) <u></u> The o	ath or declaration is objected to	by the Exami	ner. Note the atta	ached Office	Action or form P	TO-152.			
Priority under	35 U.S.C. § 119				·				
12)⊠ Ackno a)⊠ All	byledgment is made of a claim b)☐ Some * c)☐ None of:	for foreign prio	ority under 35 U.S	S.C. § 119(a)	-(d) or (f).				
1.🖾	1. Certified copies of the priority documents have been received.								
2.									
3.	Copies of the certified copies				d in this National	Stage			
	application from the Internation	•	,						
* See the	e attached detailed Office actio	on for a list of tr	ie certified copies	s not receive	a.	•			
Attachment(s)  1) Notice of Re	ferences Cited (PTO-892)		4\	view Summary	(PTO-413)				
2) Notice of Dra	aftsperson's Patent Drawing Review (F	PTO-948)	Pape	er No(s)/Mail Da	te				
3) N Information Paper No(s)	Disclosure Statement(s) (PTO/SB/08)  Mail Date		• =	ce of Informal Pa er:	atent Application				

Application/Control Number: 10/552,493 Page 2

Art Unit: 1625

#### **DETAILED ACTION**

1. Claims 37-40 are pending in the instant application and claims 1-39 are cancelled.

### **Priority**

- 2. This application is filed on 09/21/2006, which is a 371 of PCT/IB04/01350, filed on 04/07/2004, which claims benefit of 60/485,322, filed on 07/07/2003, which claims priority of UNITED KINGDOM 0308208, filed on 04/09/2003.
- 3. Claim Rejections 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 38 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 38 is rejected because the claims are self-conflicting.

Pharmaceutical composition by definition must be effective yet non-toxic. Claim 38 is pharmaceutical composition without dosage limitation i.e. included both ineffective and toxic amount. It is recommended that "therapeutically effective amount" be incorporated in the claims.

## 4. Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Application/Control Number: 10/552,493

Art Unit: 1625

Claims 39-40 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Page 3

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

- 1) The breadth of the claims.
- 2) The nature of the invention,
- 3) The state of the prior art,
- 4) The level of one of ordinary skill,
- 5) The level of predictability in the art,
- 6) The amount of direction provided by the inventor,
- 7) The existence of working examples,
- 8) The quantity of experimentation needed to make or use the invention based on the content of the disclosure.

Art Unit: 1625

The nature of the invention: The instant invention is drawn to a method of treating irritable bowel disease or inflammatory bowel disease using a compound according to claim 37.

The state of the prior art: "Increased plasma concentrations of GSTA1-1, the most abundant isoform of GST-Alpha, are a very sensitive marker for hepatocellular leakage. A sandwich-type ELISA was developed, based on a monoclonal antibody specific for human GSTA1-1 and a polyclonal rabbit antihuman GST-Alpha antiserum. The assay is specific for human GSTA1-1, and has a detection limit of 0.04 µg/L. in patients with inflammatory bowel disease, gastrointestinal tumors, irritable bowel disease, or chronic pancreatitis, plasma GSTA1-1 concentrations were similar to those of controls. In contrast, plasma GSTA1-1 concentrations were increased to a similar extent as alanine aminotransferase activities in patients with liver disorders. "(Mulder et al., Clinical Chemistry, 1996, Vol. 42, pages 416-419).

The predictability in the art: It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. *In re Fisher*, 427 F. 2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. In the instant case, the instantly claimed invention is highly unpredictable since one skilled in the art would recognize that in regards to the therapeutic effects, whether or not the compounds of formula of claim 37 would be useful for treating a pharmacological condition in a subject.

Art Unit: 1625

Amount of guidance/working examples: On pages 109-110 of the specification, applicant has examples of test compounds for inhibition assay of CRF Binding activity. However, applicant has not guidance or examples for treating irritable bowel disease, inflammatory bowel disease, and anxiety or a major depressive disorder.

The breadth of the claims: The breadth of claims is drawn to a method of treating irritable bowel disease or inflammatory bowel disease using a compound according to claim 37.

The quantity of undue experimentation needed: Since the guidance and teaching provided by the specification is insufficient for treating irritable bowel disease or inflammatory disease, one of ordinary skill in the art, even with high level of skill, is unable to use the instant compounds as claimed without undue experimentation.

The level of the skill in the art: The level of skill in the art is high. However, due to the unpredictability in the pharmaceutical art, it is noted that each embodiment of the invention is required to be individually assessed for physiological activity by in vitro and in vivo screening to determine which compounds exhibit the desired pharmacological activity and which diseases would benefit from this activity.

Taking all of the above into consideration, it is not seen where the instant claims 39-40, for treating irritable bowel disease or inflammatory bowel disease, have been enabled by the instant specification.

Application/Control Number: 10/552,493

Art Unit: 1625

5.

## Claim Objections

Claims 38-40 are objected to as being dependent upon a cancelled base claim 1.

Page 6

#### 6. Allowable Subject Matter

Claim 37 is patentable over Di Fabio et al., US 2004/0171607. The reference has the compound such as

as the instant claims. There is no motivation to modify the compound of the prior art to the instant claims compounds. Therefore, the claims are free of prior art.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Niloofar Rahmani whose telephone number is 571-272-4329. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Mckenzie, can be reached on 571-272-0670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/552,493

Art Unit: 1625

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

NILOOFAR RAHMANI 12/29/2006 P MARGAŘET D. SEAMAN

PRIMARY EXAMINER

**GROUP 1625**